## P: 20, 22, 24

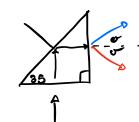
$$n_{N} = 1.52$$
 $n_{V} = 1.55$ 

$$(-\frac{10}{102})$$
  $0 = 0_R + 0_U = 19.20^\circ - 18.82^\circ = 0.385^\circ$ 

$$O_R = S_{in}^{-1} \left( \frac{n_i S_{in} \sigma_i}{n_R} \right) = 19.20 \text{ ccs} \quad O_V = S_{in}^{-1} \left( \frac{n_i S_{in} \sigma_i}{n_V} \right) = 18.82 \text{ cs}$$
 $n_i = 1.00$ 
 $N_i = 1.00$ 

$$0.0 > 30$$
 $0.0 > 1.55$ 

## 23.P.ZZ



0=1.160

$$O_2 = Sin^{-1}\left(\frac{n_1Sino_1}{n_2}\right)$$

$$n_1 = 1.572$$

$$O_2 = 100$$

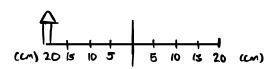
$$n_1 = 1.572$$
  $n_2 = 1.00$ 

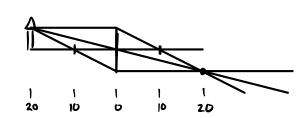
$$\sigma = \sigma_{\rm B} - \sigma_{\rm R} = 1.16^{\circ}$$

Blue

$$n_1 = 1.572$$
  $n_2 = 1.00$   $n_1 = 1.557$   $n_2 = 1.00$   $\sigma_1 = 35^\circ$   $\sigma_2 = 64.37^\circ$   $\sigma_1 = 35^\circ$   $\sigma_2 = 65.54^\circ$ 

## 23.P.24)





d= 20 cm